ECS Configuration Change Request

1. Originator Derrick Clark	2. Log Date: 08/12/03	3. CCR #: 03-0566	4. Rev: —	5. Tel: 301-925-1024	6. Rm #: 3010B	7. Dept. SWIT

8. CCR Title: Patch_6A.07_DMS_10A

9. Originator Signature/Date Derrick Clark /s/ 08/12/03	10. Class II	11. Type: CCR	12. Need Date: 12Aug03

13. Office Manager Signature/Date Louis Swentek /s/ 08/12/03	14. Category of Change: Other	15. Priority: (If "Emergency" fill in Block 27). Routine

16. Documentation/Drawings Impacted *(Review and submit checklist):*	17. Schedule Impact:	18. CI(s) Affected:DMS

19. Release Affected by this Change: 6A	20. Date due to Customer: 12Aug03	21. Estimated Cost: None - Under 100K

22. Source Reference: ☒NCR (attach) ☐Action Item ☐Tech Ref. ☐GSFC ☐Other:
See attachment

23. Problem: (use additional Sheets if necessary)
LaRC - MISR Science Parameters incorrectly spelled in DMS database; D3 option no longer needed
GSFC - V0 gateway displaying Passwords in the clear; ECSGuest Order Prioritys should be Configurable.
NSIDC -   Vo gateway cored several times in one half hour in OPS mode.
 DMS Database - GCMD Keyword field sizes are old; InstrumentTechnique value should not be truncated; Relocation to xxacgnn_srvr from xxinsnn_srvr; Corrected *.dat files to insure correct data is used.
 EDC - EDG option buttons are not descriptive enough

24. Proposed Solution: (use additional sheets if necessary)
Deliver Patch_6A.07_DMS.10A

25. Alternate Solution: (use additional sheets if necessary)
Wait until complete 6A.08 delivery.

26. Consequences if Change(s) are not approved: (use additional sheets if necessary)
Wait until complete 6A.08 delivery.

27. Justification for Emergency (If Block 15 is "Emergency"):

28. Site(s) Affected: ☒EDF ☒PVC ☒VATC ☒EDC ☒ GSFC ☒LaRC ☒NSIDC ☐SMC ☐AK ☐JPL
☐EOC ☐ IDG Test Cell ☐Other

29. Board Comments:	30. Work Assigned To:	31. CCR Closed Date:

32. EDF/SCDV CCB Chair (Sign/Date): Evelyn N. Nakamura /s/ 08/12/03	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS
33. M&O CCB Chair (Sign/Date): Pamela Johnson /s/ 08/12/03	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ECS
34. ECS CCB Chair (Sign/Date):	Disposition: Approved App/Com. Disapproved Withdraw Fwd/ESDIS ERB Fwd/ESDIS

CM01JA00 Revised 8/2/02   ECS/EDF/SCDV/M&O

ADDITIONAL SHEET

CCR #: 03-0566   **Rev:** —   **Originator:** Derrick Clark

Telephone: 301-925-1024   **Office:** 3010B

Title of Change: Patch_6A.07_DMS.10A

Actions

ClearCase

Make one SOL8 tar file with the following packages from the 6A07EBF1 Baseline:
   .EcDmDatabase.pkg
   .EcDmDBValids.pkg
   .EcDmINTFCSVR.pkg
   .EcDbDDMdm2acg.pkg

Make the following tar file from the 6A07 Baseline:
  Make one SOL8 tar file with the following file:
    EcIoAdDb_NCR36952.ksh

Please name these tar files Patch_6A.07_DMS_10A

Patch//TE Dependencies

 The following NCRs was delivered in TE_6A.07_DMS_07
    ECSed37018 OPS_DMS 2 V GSFC DAAC GSFC/SMC: Short Name searches failing in TS1
    ECSed37058 OPS_DMS 2 C GSFC DAAC Passwords visible in EcDmV0ToEcsGatewayDebug.log

 The following NCRs were delivered in TE_6A.07_DMS_08A
    ECSed37234 OPS_DMS 2 C EDC DAAC OPS:6A.06:Some customers are receiving LPGS FTP email.
    ECSed37302 OPS_DMS 2 C GSFC DAAC GSFC/SMC - EcDmV0ToEcsGateway has cored 5 times on 04/14/20
    ECSed37314 OPS_DMS 2 V GSFC DAAC V0Gateway cored during Data Granule ID search

 The following NCR was delivered in TE_6A.07_DMS_09
   ECSed37084 OPS_DMS 2 C GSFC DAAC GSFC/SMC: EDG search fails if the number of datasets excee

The following NCRs are delivered with Patch_6A.07_DMS_10A

   ECSed36674 OPS_DMS 2 C LaRC DAAC MISR Science Parameters spelling correction needed in two M
   ECSed36951 OPS_DBDM 5 C EDF Update the DMS Database for the GCMD Keyword field sizes.
   ECSed37003 OPS_DBDM 3 C EDF InstrumentTechnique value truncated in DDICT database
   ECSed37517 OPS_INSTALLATION 3 T LaRC DAAC Remove D3 option from v0 gateway
   ECSed37450 OPS_DMS 2 V GSFC DAAC GSFC/SMC - V0 gateway displaying Passwords
   ECSed37583 OPS_DMS 2 T NSIDC DAAC EcDmV0ToEcsGateway cored 6 times in one half hour in OPS on
   ECSed36952 OPS_DBDM 5 C EDF Update the IOS Database for the GCMD Keyword field sizes.
   ECSed38007 OPS_DMS 5 V GSFC DAAC GSFC/SMC: Make ECSGuest Order Priority Configurable
   ECSed37829 OPS_DBDM 3 T PVC Need to move the DMS database to xxacgnn for SUN Consollidation
   ECSed37076 OPS_DMS 3 V TS1: EDG: option button descriptions not descriptive enough
   ECSed38060 OPS_INSTALLATION 2 V DMS files ../data/DDictData/*.dat must be updated for DbBuild process

DAAC INSTALL INSTRUCTIONS

PRE - INSTALLATION

1. Copy the *sun5.8* tar files into the <staging_area>/SOL8/ directory

2. Using the Setup.ksh files untar the 6A.07_DMS.10A tar file in the <staging_area>/SOL8/ directory

3. cd <staging_area>/SOL8/CUSTOM/dbms/

4. chmod -R 755 *

5. Copy the SOL8 tar file into <staging_area>/SOL8/ directory

6. Using tar -xvf untar the SOL8 tar file into a SOL8 staging directory.

7. As Root un tar the most recent version of EcsAssist.

8. Stop the EcIoAdServer and DMS Servers (V0 Gateway and DDICT)

INSTALLATION:

  Using E.A.S.I install the listed packages

   .EcDmDatabase.pkg**
   .EcDmDBValids.pkg
   .EcDmINTFCSVR.pkg
   .EcDbDDMdm2acg.pkg**

      **NOTE: NCR 37829 - may be executed by installing .EcDmDatabase.pkg and .EcDbDDMdm2acg.pkg only and following
instructions in section for "DATABASE MOVE"

CONFIGURATION:

1. Logon to the xxins02 host and bring up the EcsAssist Subsystem Manager.
    Select the MODE. Double click "DMS" Double click "EcDm". Click the "Configuration" button.
    Click the tab for the EcDmV0ToEcsGateway. You will notice there is a new parameter called "ECSGuestPriority" -- This is to
set the priority of ECSGuest Orders. The default value will be set to LOW. This is the DMS only fix for this NCR. There will be a
corresponding MSS fix that is not implemented with this delivery so changing this value to any thing other than LOW will have no
effect. (See NCR38007). Click the "Ok" button save changes. Click "Cancel" button since we donot want to create a configuration
file. Click on the "Tools" menu option and select "Apply Registry Patch" to apply the new parameter "ECSGuestPriority" contained
in the /usr/ecs/<MODE>/CUSTOM/.installed/DMS/.rgypatch file to the Registry Tree.

For LARC only the Media Options have been updated to eliminate the D3 options for acquires. (NCR 37517)
Start Registry GUI and select the tree currently mapped to the mode in use. Double click the host that contains the
EcDmV0ToEcsGateway and drill down to the server level. You will notice a plus (+) character to the left of the
EcDmVoToEcsGateway label if there are server specific MediaDistributionOptions.
If this is true drill down to the node that is labeled "D3". Click "D3" and click the delete button. Click "Yes" to delete.
If this is not true find the "Generic" MediaDistributionOptions drill down to the node that is labeled "D3". Click "D3" and click the
delete button. Click "Yes" to delete.

DATABASE UPDATES

1. Using EcsAssist Subsystem Manager Update the DMS database with the following patches:
    Patch6101 -- for NCR 36951
    Patch6103 -- for NCR 37003
    Both of the patches involve schema changes for DMS database. You may see warnings for patch 6101.

2. cd /usr/ecs/<MODE>/CUSTOM/dbms/DMS

    For any of the following scripts you have not previously run please run them:

    EcDmDbVALID_NCR36674.ksh
    EcDmDbVALID_NCR36236.ksh
    EcDmDbVALID_NCR36839.ksh
    EcDmDbVALID_NCR36805.ksh

3. cd /usr/ecs/<MODE>/CUSTOM/dbms/IOS
    cp <staging_area>/SOL8/EcIoAdDb_NCR36952.ksh /usr/ecs/<MODE>/CUSTOM/dbms/IOS
    Run the EcIoAdDb_NCR36952.ksh script

POST INSTALLATION:

1. Start IOS and DMS servers. The DMS database move will be executed later.

DATABASE MOVE

1. DMS Database Move from xxins01 to xxacgnn **

     **NOTE: NCR 37829 - may be executed anytime prior to or during SUN consolidation and is not dependent on any other NCRs delivered with this patch.

    logon to xxins02

    cd /usr/ecs/<MODE>/CUSTOM/dbms/DMS

    run the DmDdBcpCopyOut.csh script -- this will dump all database tables to .dat files

   This section of step "4" should only be executed once for all modes (Adding DMS database logins):
      Add the DMS database logins to the xxacgnn_srvr by running the following command:
        EcDmSybaseLogins.sql sa <sa_password> <xxacgnn_srvr>

    cd /usr/ecs/<MODE>/CUSTOM/utilties
    Run the EcDmDdDbBuild script setting xxacgnn_srvr as the sybase server
   You will see many errors in the drop script as there is nothing to drop in a database that has never been built before.
    FYI: Upon completion of the DMS database build you will notice the following message
        "Creating Databases for EcDm on xxins99 done."
    Disregard this message as the build script is using the unix "hostname" where the DMS build script was executed.

  At this point the DMS database is built on xxacgnn
     cd /usr/ecs/<MODE>/CUSTOM/dbms/DMS/
     run the DmDdBcpCopyInNew.ksh (MAKE SURE YOU USE THE NEW ONE!!!) to load the database tables
        from dat files generated in the BCP out process.

    cd /usr/ecs/<MODE>/CUSTOM/dbms/COM/DBAdmin/dm2acg
    cp the appropriate db_list_<daac> ,if applicable, file to db_list
    cp the appropriate stripes_list_<daac>,if applicable, file to stripes_list

    you may add logins and users to the DMS database by editting the logins_list and/or users_list if desired.

    The README.dm2acg file describes how to use the dm2acg script.

    We recommend you use the script and run the following options:
    1 - Check DB
    8 - Dump DB
    4 - Add Logins
    5 - Test Logins
    11 - List Groups
    12 - Grant Permissions
    14 - Drop Thresholds
    16 - Add Thresholds
    15 - List Thresholds
    17 - DBCC Check

FYI: You can run dm2acg as "dbo" but, you must use "sa" when using the script ,dm2acg, to add logins.

After you are satisfied the new database is correct we need to update the following configuration attributes to use the new database.
     "DBServer" to xxacgnn_srvr for
        EcDmV0ToEcsGateway,
        EcDmDictServer,
        EcDmDdMaintenaceTool

The delivered .rgypatch for DMS can be used to update the aforementioned configuration attribute for the three(3) processes.
Logon to xxins02 and bring down the appropriate Servers and MaintenanceTool.
cd /usr/ecs/<MODE>/CUSTOM/.installed/DMS
Edit the .rgypatch file and uncomment the approriate lines for NCR 37829
Use the EcsAssist Subsystem Manager and apply the /usr/ecs/<MODE>/CUSTOM/.installed/DMS/.rgypatch file to the mapped Registry Tree.

We also recommend you cd /usr/ecs/<MODE>/CUSTOM/.installed/DMS and edit the .cfgparms and change the value of DBServer for the listed Servers and Maintenance Tool. This should be done to make sure the value is set correctly to avoid pitfalls when Mkcfgs are run in the future. We didn't add this to the .cfgpatch because we were not sure when this move would be done.

The Spatial Subscription GUI has an attribute "DDICT_SQL_SERVER" that has to be changed to use the new DMS database on xxacgnn_srvr.

Logon to xxins01 or xxins02, depending on your DAAC.
cd /usr/ecs/<MODE>/CUSTOM/.installed/SSS and edit the .cfgparms and change the value of DDICT_SQL_SERVER for the Spatial Subscription GUI.
 cd /usr/ecs/<MODE>/CUSTOM/utilities
Execute EcNbGUIMkcfg <mode> to generate a new configuration file to be used by the Spatial Subscription GUI.

If IOS and DMS servers are up Bounce IOS and DMS servers.
If IOS and DMS servers are down start IOS and DMS servers.